

Abstract

To advantageously solve a problem related to thermal expansion and contraction, ferritic Cr-contained steel having a reduced thermal expansion coefficient is provided. Specifically, the ferritic Cr-contained steel contains C of 0.03% or less, Mn of 5.0% or less, Cr of 6 to 40%, N of 0.03% or less, Si of 5% or less, and W of 2.0% to 6.0% in percent by mass, and Fe and inevitable impurities as the remainder, wherein precipitated W is 0.1% or less in percent by mass, and an average thermal expansion coefficient between 20°C and 800°C is less than 12.6×10^{-6} /°C.